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(65)

## CLAIMS

1. Device for treating a gas/liquid mixture, comprising:
- an inlet opening for the mixture;
  - an outlet for the mixture located downstream;
  - rotating means arranged in the tube for setting the mixture into rotating movement;
  - one or more outlet openings arranged downstream relative to the rotating means for allowing a part of the mixture to flow laterally out of the tube;
  - a return conduit arranged centrally in axial direction through the rotating means for reintroducing the flow which has exited via the outlet openings;
- characterised by
- divergence means arranged close to the outer end of the return conduit for allowing the reintroduced flow to diverge laterally outward.
2. Device as claimed in claim 1, wherein the divergence means comprise slots (19) recessed into an end part (18) of the return conduit (16).
3. Device as claimed in claim 1 or 2, wherein the divergence means comprise a substantially conical element (17) close to the outer end of the return conduit.
4. Device as claimed in any of claims 1-3, wherein the outlet openings are formed by a number of longitudinal slots in the side wall of the tube.
5. Device as claimed in any of claims 1-4; wherein the rotating means comprise a swirl element, of which the outflow angle for the mixture amounts to 15°-85°.
6. Device as claimed in claim 5, wherein the outflow angle amounts to about 45°, 60° or about 70°.
7. Device as claimed in any of the claims 1-6, wherein  $D_{s0}$  amounts to 4  $\mu\text{m}$  or less.

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8. Installation for separating water from gas, comprising:

- a vessel provided with a connecting stub for supply of the mixture;

5 - a drain conduit for draining liquid collected in the bottom of the vessel; and

- one or more boxes in which one or more devices as claimed in one or more of the claims 1-6 are arranged.

10 9. Installation as claimed in claim 8, wherein at least one liquid conduit extends between the box and the space in the bottom of the vessel where the liquid is collected.

15 10. Device for treating a gas/liquid mixture according to any of the claims 1-7, comprising:

- an inlet opening for the mixture;

- rotating means arranged in the tube for setting the mixture into rotating movement; and

20 - a substantially conically tapering outlet for the mixture located downstream, wherein one or more slots are arranged to allow a part of the mixture to flow laterally out of the outlet.

11. Device as claimed in claim 10, wherein the conicity amounts to 1°-30°.

25 12. Device as claimed in claim 10 or 11, provided with an additional tube part which protrudes at least partially upstream in the outlet.

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